Introduction

- **Purpose:** Work with WDOE to identify, study and implement projects that provide multiple benefits to the region.

- **Investigate high value projects that take into account the “triple bottom line”:**
  - Environmental-Increased summer flows, non-GHG emitting energy sources.
  - Social-Provide water to out-of-stream users.
  - Economic-Low cost renewable generation sources.
Introduction Cont.

- Potential WDOE/Chelan PUD agreement structure:
  - Incorporate shared benefits to provide maximum value to the region
  - Create a model to provide sustainable water storage funding.
  - Poolraise at Rocky Reach, water storage opportunities, Rock Island (Impacts from Wanapum)
Project Area
Rocky Reach Poolraise

**Details**
- Seasonal Operation
  - Operate at new elevation September – July
  - Water available for release July – September
  - Critical flow periods
- Provide up to 28,000 acre-feet
- Multiple Benefits
  - Increased summer in-stream flows
  - Additional water for out-of-stream uses
  - Renewable generation

**Project Challenges**
- Cultural Resources
- Impacts to land owners
- ESA Listed Plant Species- Ute Ladies’ Tresses
- Anadromous fish
Other Water Storage

**Details**
- Various Locations
- Seasonal operation
- Opportunities for small footprint projects (10,000-30,000 acre-feet)
- Multiple benefits
  - Increased summer in-stream flows
  - Additional water for out-of-stream uses
  - Additional renewable generation
  - Renewable energy integration

**Project Challenges**
- Cost
- Small environmental footprint
- Ringtop Reservoirs
Wanapum Poolraise Impacts

Details
- Will quantify impacts of Wanapum poolraise on Rock Island

Challenges
- Fishway operations
- Impacts to new units
- Other unique challenges due to previous encroachment
## Proposed Next Steps/Cost/Schedule

<table>
<thead>
<tr>
<th>Project</th>
<th>Activity</th>
<th>Cost</th>
<th>Time Frame</th>
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<tr>
<td>Rocky Reach</td>
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Questions?

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